

Date: July 16, 1997

To: T10 Committee (SCSI)

From: George Penokie (IBM)

Subject: Warning/PFA ASC Reporting Selection

## 1 Overview

With the addition of the WARNING ASC to the FAILURE PREDICTION THRESHOLD EXCEEDED ASC that can be reported with the informational exceptions control page some systems are confused as to the difference between the two ASCs. This is because not all have implemented the warning part of this page which was added late in the standardization process. To resolve this problem we propose the following be incorporated into SPC-2.

## 2 ASC reporting selection control

We propose adding one bit to the informational exceptions control page to enable/disable the reporting of the WARNING ASC (EWASC) as described below. We are also proposing a modification to the DEXCPT bit to only enable/disable the reporting of the FAILURE PREDICTION THRESHOLD EXCEEDED ASC'.

**Table 1 - Informational exceptions control page**

Bit Byte	7	6	5	4	3	2	1	0
0	PS	RESERVED	PAGE CODE (1Ch)					
1	PAGE LENGTH (0AH)							
2	PERF	RESERVED	EWASC	DEXCPT	TEST	RESERVED	LOGERR	
3	RESERVED				MRIE			
4	MSB							
5								
6	INTERVAL TIMER							
7							LSB	
8	MSB							
9								
10	REPORT COUNT							
11							LSB	

A disable exception control (DEXCPT) bit of zero indicates the failure prediction threshold exceeded reporting shall be enabled. The method for reporting the failure prediction threshold exceeded when the DEXCPT bit is set to zero is determined from the METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field. A DEXCPT bit of one indicates the target shall disable reporting of the failure prediction threshold exceeded.

The METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field is ignored when DEXCPT is set to one and EWASC is set to zero.

A enable warning (EWASC) bit of zero indicates the target shall disable reporting of the warning. The METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field is ignored when DEXCPT is set to one and EWASC is set to zero. A EWASC bit of one indicates warning reporting shall be enabled. The method for reporting the warning when the DWASC bit is set to one is determined from the METHOD OF REPORTING INFORMATIONAL EXCEPTIONS field.